Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

Review: Conversions with Scientific Notation

1. ***Directions:*** Write each number in scientific notation.

|  |  |
| --- | --- |
| Standard Form | Scientific Notation |
| 0.0333 |  |
| 0.00087 |  |
| 98000 |  |
| 40180900 |  |

1. ***Directions:*** Write each number in standard form.

|  |  |
| --- | --- |
| Scientific Notation | Standard Form |
| 8.602 ∙ 10-5 |  |
| 4.104 ∙ 102 |  |
| 7.003 ∙ 10-3 |  |
| 1.35 ∙ 106 |  |

3. ***Directions:*** Compare the two values and circle which is **greater**.

|  |  |
| --- | --- |
| Value 1 | Value 2 |
| 7.8 ∙ 103 | 5.5 ∙ 105 |
| 9.4 ∙ 10-4 | 7.1 ∙ 10-6 |

4. ***Directions:*** Compare the two values and circle which is **less**.

|  |  |
| --- | --- |
| Value 1 | Value 2 |
| 6.12 ∙ 10-5 | 8.5 ∙ 10-2 |
| 4.29 ∙ 104 | 3.48 ∙ 105 |

Adding and Subtracting in Scientific Notation

5. ***Directions:*** Add or subtract the numbers in scientific notation with **the same power of 10.**

|  |  |
| --- | --- |
| 1. 5.4 ∙ 105 + 6.7 ∙ 105 = | 1. 8.31 ∙ 103 + 4.22 ∙ 103 = |
| 1. 3.12 ∙ 104 – 2.77 ∙ 104 = | 1. 7.6 ∙ 107 – 6.9 ∙ 107 = |

6. ***Directions***: Add or subtract the numbers in scientific notation with **different powers of 10.**

|  |  |
| --- | --- |
| 1. 2.68 ∙ 104 + 6.51 ∙ 105 = | 1. 5.12 ∙ 10-2 + 1.7 ∙ 10-3 = |
| 1. 4.5 ∙ 106 – 7.1 ∙ 105 = | 1. 8.3 ∙ 10-3 – 3.9 ∙ 10-4 = |